REMARKS

The claims are unamended but set out in this response for convenience.

The rejections made previously have been withdrawn and replaced by rejections that are based on the understanding that US 4,063,787 (Bakken) depicts a surface of rotation containing slots that are disposed to provide a labyrinthine load path between the upper and lower surfaces of the device. It does not. The examiner states that the applicants have defined the word "labyrinthine" as being non-linear. This is incorrect. Non-linearity is a necessary but not a sufficient element of the definition of "labyrinthine". As noted previously, the direct load pathway between the lower interface 13 and the upper interface 12 is always interrupted by slots 14. At page 9 line 8 it is pointed out that narrow load passages are shown in Figs 3, 4, 5, 6, 9 and 10. As noted in the following paragraph referring to the load path in the constructions depicted in these figures:

The only possible pathway for the disturbance is through the six passages between the different levels, therefore through a labyrinthic pathway. That is, the two levels of slots 14 perform the function of attenuating the shockwaves attempting to advance from the lower part 13 of the spacecraft towards the upper part 12 thereof where the payload is located, which is rather sensitive to said shockwaves.

The significance of this is explained on page 10 with reference to Figure 11:

Thus, as can be seen in Figure 11, following it as

indicated by the arrow, when the shock disturbance which comes from the lower interface 13 tries to advance towards the upper interface 12, it finds the lower level of slots 14 on which it reflects and advances only when it finds one of the three lower passage areas, see the lower part of Figure 11.

Continuing through these sections and finding the next level of slots 14 preventing passage, one part of the disturbance is reflected in them and another part travels circularly through the structural area between the slots 14, see the intermediate part of Figure 11. When it finally finds the upper passage it has lost an important part of its energy.

Similar results are obtained using slots of a different location and shape in the embodiment of Fig 7 where there is "overlap" between the ends of the slots precluding a direct load path from the lower interface to the upper interface.

In response to the previous action, it was pointed out that the cited Buder reference disclosed only linear load paths and so was not anticipated by anything non-linear. As noted in the passages from the specification quoted above, the term "labyrinthine" requires more than that a path is non linear. It requires that there is interrupted aso that there is no "direct" path and that the load path must wind around this interruption. The term "labyrinthine" is defined in Webster's New Collegiate Dictionary as "relating to or resembling a labyrinth". "Labyrinth" is defined in its most relevant definition as "something extremely complex or tortuous in structure, arrangement or character". "Tortuous" is

defined as "marked by repeated twists, bends or turns; winding". Copies of the relevant

definitions are attached.

No load path in Bakkem meets this requirement. Bakkem's load paths lie within his shims.

Most of the load paths are linear. Nothing impedes a direct load path from the upper to the

lower surface. The fact that some load paths may not be quite vertical is irrelevant. They

are not labyrinthine.

It is therefore submitted that contrary to the examiner's assertions, Bakken does not

disclose the applicant's basic inventive concept. This being the case, it neither anticipates

claim 1 under 35 USC 102 nor does it provide any basis for combination with other art to

found a rejection of obviousness under 35 USC 103.

None of the secondary references, remedy this fundamental defect in Bakken. Their

contents were discussed in response to the previous action. None of them points to the

desirability of a labyrinthine load path and so whatever else they teach, it is not the basic

concept of the present application.

In view of the foregoing it is submitted that this application is now in order for

allowance and an early action to this end is respectfully solicited.

Respectfully submitted,

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R'S

New Collegiate Dictionary

a Merriam-Webster®

G. & C. MERRIAM COMPANY Springfield, Massachusetts, U.S.A.

tortrix \times touch

tortus \phiotrotriks\ n [NL Tortric., Tortrix, genus of moths, fr. L
tortus, pp. of torquēre to twist; fr. the habit of twisting or rolling
leaves to make a nest]: a tortricid moth
tortu-oa-ity \tior-ch-wais-a-i-e\ n, pt ties 1: the quality or state
of being tortuous 2: something winding or twisted: BEND
tortu-ous \tiorch-(a)-was\ adj [ME, fr. MF tortucux, fr. L tortuosus, fr. tortus twist, fr. tortus, pp. of torquēre] 1: marked by
repeated twists, bends, or turns: \times winding or twisted: Deno
trucous or indirect tactics: CROOKED, TRICKY b: CIRCUITOUS,
INVOLVED—tortu-ous-ly ady—tortu-ous-ness n
\times tortu-ou-bread \times to twist; akin to OHG drāshist furner, Gk atraktos spindle] 1: the
infliction of intense pain (as from burning, crushing, or wounding)
to punish, coerce, or afford sadistic pleasure 2 a: anguish of
body or mind: AGONY b: something that causes agony or pain
3: distortion or overrefinement of a meaning or an argument
: STRAINING

torture w tor-tured: tor-tur-ing \tiorch-(o-)rin\ 1: to punish or
coerce by inflicting excruciating pain 2: to cause intense suffering to: TorMEMT 3: to twist or wrench out of shape: DISTORT.
WARP syn see AFFLICT—tor-tur-er\tior-chor-ar\n
tor-tur-ous-ly ad\tior-(\docs-)-ris\ adj: causing torture: cruelly painful
—tor-tur-ous-ly ad\tior-(\docs-)-ris\ adj: causing torture

or associated with Tories 2: the British Tory party or its members
tory-roy adj [origin unknown] cbs: UPROARIOUS, ROISTERING
tosh \tash \n [origin unknown]: sheer nonsense: BOSH, TWADDLE
toss \tash \task \n b [origin unknown]: sheer nonsense: BOSH, TWADDLE
toss \task \n tos, \task \n b [origin unknown]: sheer nonsense: BOSH, TWADDLE
tosh \task \n tosk \n t

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**TOTALLY **

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1-15-tik adj
1-15-

dination of the individual to the state and strict control of all pects of the life and productive capacity of the nation esp. by excive measures (as censorship and terrorism) 2 a: advocating characteristic of totalitarianism b: completely regulated by state esp. as an aid to national mobilization in an emergency: exercising autocratic powers: tending toward monopoly 2 totalitarian n: an advocate or practitioner of totalitarianism totalitarianism \(\)\(\text{to}\)\(\text{tal}\)\(\text{-tal}\)\(\t

Buckley 01923)
totabi-fy \(\text{to}\) (12-3-t-\infty), \(pl\) ties 1: an aggregate amount: \(\infty\) WHOLE 2 a: the quality or state of being total: WHOLENES: a period (as during an eclipse) during which totality exists to \(\text{to}\) total-iza-tor or total-isa-tor \(\text{to}\) (15t-\(^2\)]-3-,z\(\frac{2}{3}t-\) \(n\): a pari-mu

to-tal-iza-tor or to-tal-iza-transching 1: to add up: TOTAL 2
express as a whole: SUMMARIZE
to-tal-izer \-i-za\ n: one that totalizes: as a: a pari-my
machine b: a device (as a meter) that records a remaining t

to talizer _i-z-z \ n : one that totalizes: as a: a pari-mu machine b: a device (as a meter) that records a remaining t (as of fuel)

to-taliy \'tōt-i-\text{c}\ adv 1: in a total manner: WHOLLY 2: whole: in toto

total recall n: the faculty of remembering with complete cki and in complete detail

total utility n: the degree of utility of an economic good (a article or service) considered as a whole

to-ta-quine \'tōt-o,-kwin, -k(w)=n, \choose kwin-n, \choose kwin, -k(w)=n, \choose kwin-n, \choose kwin-n,

tote \ \(^101\) wr toted; toting [origin unknown] 1: to carr hand: bear on the person: LUG.PACK 2: HAUL CONVEY 2 tote n 1: BURDEN, LOAD 2: a large handbag — called also bag 3 tote wr toted; toting [E dial. tote, n. (total)]: ADD. TOTAL — used with up \(\text{toted}\) up his accomplishments — G. P. Morrill) \(^101\) with a plant for totalizator]: a pari-mutuel machine to-tem \(^101\)-m\(^101\) n [Ojibwa ototeman his totem] 1 a: an o (as an animal or plant) serving as the emblem of a family or and often as a reminder of its ancestry; also: a usu. carve painted representation of such an object b: a family or clanified by a common totemic object 2: something that serv an emblem or revered symbol to-tem-ic \(^101\) to-tem-ik\(^101\) add \(^101\) totem-ic \(^101\) to-tem-ik\(^101\) add \(^101\) totem-ic \(^101\) to-tem-ik\(^101\) add \(^101\) totem-im \(^101\) to-imis-tik\(^101\) add \(^101\) totem-im \(^101\) to-imis-tik\(^101\) add \(^101\) totem-imis \(^101\) color singer in \(^101\) and \(^101\) totem \(^101\) and \(^101\) totem is symbols representing family lineage and often my or historical incidents and erected before the houses of littlem of them to represent a whole organism from a part tother or \(^101\) color \(^101\) and \(^101\) are color from \(^101\) color of \(^101\) and \(^101\) are color in \(^101\) and \(^101\) are or or \(^101\) and \(^101\) are color of \(^101\) and \(^101\) and \(^101\) are color of \(^101\) and \(^101\) are color of \(^101\) and \(^101\) are





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little 13 low symbol 1 inductance 2 Lagrangian prefix [SN, fr. lev-] 1 \lē-(]vō, el, 'el\ : levorotatory \(\lambda \) tartaric acid 2 \lel, 'el\ : having a similar configuration at a selected carbon atom to the configuration of levorotatory glyceraldehyde little

L symbol 1 inductance 2 Lagrangian | prefix [ISV, fr. lev] 1 \label{lagrangian} | lprefix [ISV, fr. lev] | lprefix [ISV,

of maxillae united in the middle line **D: a npike pair of various** invertebrates "la-bor \1a. [ME, fr. OF, fr. L labor] **1** a: expenditure of physical or mental effort esp. when difficult or compulsory **b** (1): human activity that provides the goods or services in an economy (2): the services performed by workers for wages as distinguished from those rendered by entrepreneurs for profits **c**: the physical activities involved in parturition; also: the period of such labor **2**: an act or process requiring labor: TASK **3**: a product of labor **4** a: an economic group comprising those who do manual labor

workingmen or characterized by a memoeising in which organized laboratory (lab-(a-)ra-tōr-ē, -tōr-, Brit usu la-'bār-a-t(a-)rē\ n, pl -ries often atrib [ML laboratorium, fr. L laboratus, pp. of laborate to labor, fr. labor] 1: a place equipped for experimental study in a science or for testing and analysis, broadly: a place providing opportunity for experimentation, observation, or practice in a field of study 2: an academic period set aside for laboratory work

labor camp n 1: a penal colony where forced labor is performed

labor camp n 1: a penal colony where forced labor is performed 2: a camp for migratory laborers

Labor Day n: a day set aside for special recognition of the workingman: as a: the first Monday in September observed in the U.S. and Canada as a legal holiday b: May I in many countries labored adj 1: produced or performed with labor 2: bearing marks of labor and effort; esp: lacking ease of expression (a ~ speech)

marks of labor and effort; esp: lacking ease of expression (a ~ speech) labor-ious \la-"bor-\"o-sp. -"bor-\"odj 1: devoted to labor: INDUSTRIOUS 2: involving or characterized by hard or toilsome effort: LABORED— labor-ious-ly adv — la-bor-ious-less n labor-ite \"la-bo-\"it\ n 1: a member of a group favoring the interests of labor 2 cap a: a member of a political party devoted chiefly to the interests of labor b usu La-bour-ite: a member of the British Labour party la-bor-sav-ing \"la-bor-\"isa-bor-\"isa-vin\"\ adj: adapted to replace or decrease human and esp. manual labor labor union n: an organization of workers formed for the purpose of advancing its members' interests in respect to wages, benefits, and working conditions la-bour chiefly Brit var of LABOR lab-ra-dor-ite \"lab-ra-do'-\"it\ \"lab-ra-do'-\"lab-ra-do'-\"lab-ra-do'-\"lab-ra-do'-\"lab-ra-do'-\"lab-ra-do'-\"lab-ra-do'-\"lab-ra-do'-\"lab-ra-do'-\"lab-ra-do'-\"lab-ra-do'-\"lab-ra-do'-\"lab-ra-do'-\"lab-ra-do'-\"lab-ra-do'-\"l

and notation breacht of nead and cutest—canied aso Lorddor lab-ret \label{in-brat} n [L labrum]: an ornament worn in a perforation of the lip labrum \label{in-brat} n [NL, fr. L, lip, edge — more at LIP]: an upper or anterior mouthpart of an arthropod consisting of a single median piece in front of or above the mandibles labur-num \label{in-brat} new [NL, genus name, fr. L, laburnum]: any of a small genus (Laburnum) of poisonous Eurasian leguminous shrubs and trees with pendulous racemes of bright yellow flowers; esp: an ornamental tree (L anagyroides) often cultivated for Easter decoration lab-y-rinth \lab-2-rin(t)th, -ron(t)th\ n [ME laborintus, fr. L laby-rinthus, fr. Gk labyrinthas] 1 a: a place constructed of or full of intricate passageways and blind alleys b: a maze (as in a garden) formed by paths separated by high hedges 2: something extremely complex or tortuous in structure, arrangement, or character: INTRICACY, PERPLEXITY (a \sim of swamps and channels) \(\) guided them through the \sim s of city life —Paul Blanshard \) 3: a tortuous anatomical structure; esp: the internal ear or its bony or membranous part.

anatomical structure, esp: the internal call of its only of memoratous part lab-y-rin-thian \lab-\text{-}-ini(t)-th\tilde{\text{-}}-\text{inin}\, \text{-}th\tilde{\text{in}}\, \text{-}t

to, or resembling a labyrinth: INTRICATE, INVOLVED 2: of, relating to, affecting, or originating in the internal ear (human ~ lesions)

*lac \lak \n [Per lak & Hindi lākh, fr. Skt lāksā]: a resinous substance secreted by a scale insect (Laccifer lacca) and used chiefly in the form of shellac

*lac var of LAKH

*lac-co-lith \lak-2-, lith\ n [Gk lakkos cistern + E -lith]: a mass of igneous rock that is intruded between sedimentary beds and produces a domical bulging of the overlying strata

*lace \lak \n [ME fr. OF laz, fr. L laqueus snare — more at DELIGHT] 1: a cord or string used for drawing together two edges (as of a garment or a shoe) 2: an ornamental braid for trimming coats or uniforms 3: an openwork usu. figured fabric made of thread or yarn and used for trimmings, household coverings, and entire garments — lacce\lak \lak \adj = lace-like \lak \lak \adj = lace-like \lak \lak \adj = lace-like \lak \lak \adj = lace lace \lak \lak \adj = lace lace \lak \lak \adj = lace passed through eyelets 2: to draw or pass (as a lace) through something (as eyelets) 3: to confine or compress by tightening laces esp. of a corset 4 a: to adorn with or as if with lace b: to mark with streaks of color 5: BEAT, LASH 6 a: to add a dash of an alcoholic liquor to b: to give savor or zest to \sigma vi: to admit of being tied or lastened with a lace — lascer n lace-curtain adj: copying middle-class standing

*lace-rate \las-a-rat, \rat{n} or lace-rated \rat{rat-ad} adj 1 a: TORN, ANOLED b: extremely harrowed or distracted 2: having the edges deeply and irregularly cut (a \sigma petal)

2lac-er-ate _irāt\ vi tear; akin to L lacer roughly 2: to caus — lac-er-a-tive _irāt\ vi tear; akin to L lacer roughly 2: to caus — lac-er-a-tive _irāt lac-er-a-tive _irāt lac-er-a-tive _irāt lac-er-a-tive _irāt lac-er-a-tive _irāt lac-er-a-tive lace-wing \lace-ev vi \lacet lacet lacet

oped in Canada fre stock
la-con-ic \la-"kän-ik\
the Spartan reputative use of a minimu rude or mysterious ly\-i-k(-o-lie\) adv
lac-onism \"lak-o-nis style
lac-quer \"lak-or\ n fr. Per lak\] 1 a: a curable natural varn sumac (Rhus vernici lacquer 2: any of ings that typically di esp: a solution of a calcuer v lac-quer lacquer v lac-quer lacquer v: 1 o give er\-o-r\ n lac-ri-ma-tion \ lak-when abnormal or elac-ri-ma-tion \ lak-when abnormal \ more at GALAXY] 1
tate> b: lactose (la
lactal-bu-min _lakobtained from whey
lactase \"lak-\tas, -,
tose and other betayoung mammals and lac-tate \lac-tate \lac-tate\ rac-tate \lac-tate \lac-tate